



Water-Data Report 2009

01461000 DELAWARE RIVER AT LUMBERVILLE, PA

DELAWARE RIVER BASIN

LOCATION.--Lat 40°24'27", long 75°02'16" referenced to North American Datum of 1927, Solebury Township, Bucks County, PA, Hydrologic Unit 02040105, at pedestrian bridge at Lumberville, 1.4 mi upstream from Lockatong Creek, and at river mile 155.4.

DRAINAGE AREA.--6,598 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1976 to May 2009 (discontinued).

REMARKS.--Cooperative Network Site Descriptor: Delaware River Main Stem, NJ Department of Environmental Protection Watershed Management Area 11.

COOPERATION.--Physical measurements and samples for laboratory analyses were provided by personnel of the NJ Department of Environmental Protection. Determinations of dissolved ammonia, dissolved orthophosphate, and suspended residue were performed by the NJ Department of Health and Senior Services, Environmental and Chemical Laboratory.

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 1 of 3

[Remark codes: <, less than; E, estimated.]

Date	Time	Baro-metric pressure, air, mm Hg (00025)	Temper-ature, deg C (00020)	UV absorb-ance, 254 nm, wat flt /cm (50624)	UV absorb-ance, 280 nm, wat flt /cm (61726)	Instan-taneous dis-charge, ft ³ /s (00061)	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of sat-uration (00301)	pH, water, unfltrd field, std units (00400)	Specif-ic conduc-tance, μS/cm @ 25 degC (00095)	Turbdty, white light, 90+/-30 det ang (NTRU) (63676)	Dis-solved solids dried @ 180degC wat flt mg/L (70300)
Nov 05...	1000	764	13.4	.119	.092	11,200	--	--	8.8	171	8.6	1.9
Feb 18...	1030	760	4.1	.067	.052	11,300	12.7	91	7.9	197	1.3	2.5
May 04...	1000	764	15.1	.059	.046	9,320	8.5	86	7.7	229	16.0	18

01461000 DELAWARE RIVER AT LUMBERVILLE, PA—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 2 of 3

[Remark codes: <, less than; E, estimated.]

Date	Dis-		Sus-		Magnes-		Potas-		ANC,		Total		Inor-			
	solved	solids,	sus-	pended	Calcium	ium,	Magnes-	Sodium	wat	unf	fixed	carbon,	Chlor-	Fluor-	ganic	
	sum of	Hard-	solids,	water,	water,	ium,	Magnes-	water,	water,	unf	end pt,	suspnd	total,	ide,	ide,	carbon,
	consti-	titu-	water,	unfltrd	fltrd,	ium,	ium,	water,	water,	unf	end pt,	suspnd	total,	water,	water,	water,
	tuents,	nts,	water,			water,	water,	water,	water,	unf	end pt,	suspnd	total,	water,	water,	water,
	mg/L	mg/L	water,			water,	water,	water,	water,	unf	end pt,	suspnd	total,	water,	water,	water,
	(70301)	(00900)	CaCO ₃			(00530)	(00915)	(00925)	(00935)	(00930)	(90410)	(00694)	(00940)	(00950)	(00688)	(00955)
Nov 05...	88	48	4	12.8	3.98	1.18	11.0	34	.4	18.2	<.08	<.04	4.5			
Feb 18...	98	49	3	12.8	4.20	1.05	14.9	34	.2	24.9	<.08	<.04	4.1			
May 04...	E116	71	5	18.1	6.21	1.38	13.2	51	.4	23.9	E.06	<.04	2.9			

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 3 of 3

[Remark codes: <, less than; E, estimated.]

Date	Ammonia		Nitrate		Ortho-		Partic-		Phos-		Phos-		Total		Total		Organic	
	+ org-N,	Ammonia	nitrite	+ water,	water,	water,	water,	water,	water,	water,	water,	water,	Total	nitro-	nitro-	Organic	carbon,	carbon,
	Sulfate	water,	Ammonia	water,	water,	water,	water,	water,	water,	water,	water,	water,	nitrogen,	nitrogen,	water,	suspnd	sedimnt	water,
	water,	filtrd,	water,	filtrd,	filtrd,	filtrd,	filtrd,	filtrd,	filtrd,	filtrd,	filtrd,	filtrd,	mg/L	mg/L	water,	unfltrd	total,	water,
	mg/L	mg/L	as N	as N	mg/L	as N	mg/L	as P	mg/L	as P	mg/L	as P	(00666)	(00665)	(00602)	(00600)	mg/L	mg/L
	(00945)	(00623)	(00608)	(00631)	(00671)	(49570)	(49570)	(49570)	(49570)	(49570)	(49570)	(49570)				(00689)	(00681)	
Nov 05...	12.9	.21	.028	.66	.031	.04	.037	.045	.86	.90	.38	.36						
Feb 18...	12.4	.17	.012	.77	.017	.03	.020	.029	.94	.97	.24	.20						
May 04...	14.8	.34	.041	.96	.044	.06	.052	.065	1.3	1.4	.36	.21						

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 1 of 7

[Remark codes: <, less than; E, estimated.]

Date	1,2,3-										cis-				
	Tri-chloro-	Dibromo	1,2-Di-	1,2-Di-	1,2-Di-	1,3-Di-	1,4-Di-	3-	Acrylo-	Bromo-	Carbon	1,3-Di-	chloro-	Iodo-	
	propane	chloro-	bromo-	ethane,	chloro-	chloro-	chloro-	chloro-	nitrile	methane	di-	chloro-	propene	methane	
	water,	water,	water,	water,	water,	water,	water,	water,	water,	water,	water,	water,	water,	water,	
	unfltrd	unfltrd	unfltrd	unfltrd	unfltrd	unfltrd	unfltrd	unfltrd	unfltrd	unfltrd	unfltrd	unfltrd	unfltrd	unfltrd	
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
	(77443)	(82625)	(77651)	(32103)	(34541)	(77173)	(34571)	(78109)	(34215)	(34413)	(77041)	(34704)	(77424)		
Feb 18...	<.12	<1.0	<.04	<.1	<.02	<.1	<.02	<.08	<.4	<.4	<.04	<.10	<.80		

01461000 DELAWARE RIVER AT LUMBERVILLE, PA—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 2 of 7

[Remark codes: <, less than; E, estimated.]

Date	trans-1,3-Dichloro-propene water, unfltrd	1,1,1,2-Tetra-chloro-ethane, water, unfltrd	1,1,1-Chloro-ethane, water, unfltrd	1,1,2,2-Tetra-chloro-ethane, CFC-113	1,1,2-Chloro-ethane, water, unfltrd	1,1-Dichloro-ethane, water, unfltrd	1,1-Dichloro-ethene, water, unfltrd	1,1-Dichloro-propene benzene	1,2,3,4-Tetra-methyl-benzene water, unfltrd	1,2,3,5-Tetra-methyl-benzene water, unfltrd	1,2,3-Tri-chloro-benzene water, unfltrd	1,2,3-Tri-methyl-benzene	
	µg/L (34699)	µg/L (77562)	µg/L (34506)	µg/L (34516)	µg/L (77652)	µg/L (34511)	µg/L (34496)	µg/L (34501)	µg/L (77168)	µg/L (49999)	µg/L (50000)	µg/L (77613)	µg/L (77221)
Feb 18...	<.10	<.04	<.02	<.10	<.04	<.06	<.04	<.02	<.04	<.1	<.1	<.1	<.1

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 3 of 7

[Remark codes: <, less than; E, estimated.]

Date	1,2,4-Tri-chloro-benzene water, unfltrd	1,2,4-Tri-methyl-benzene water, unfltrd	1,2-Di-chloro-benzene water, unfltrd	1,3,5-Tri-methyl-benzene water, unfltrd	1,3-Di-chloro-benzene water, unfltrd	2,2-Di-chloro-propane	2-Chloro-toluene	2-Ethyl-toluene	4-Chloro-toluene	4-Iso-propyl-toluene	Acetone	Benzene	Bromo-benzene
	µg/L (34551)	µg/L (77222)	µg/L (34536)	µg/L (77226)	µg/L (34566)	µg/L (77170)	µg/L (77275)	µg/L (77220)	µg/L (77277)	µg/L (77356)	µg/L (81552)	µg/L (34030)	µg/L (81555)
Feb 18...	<.04	<.04	<.02	<.04	<.02	<.06	<.02	<.02	<.02	<.06	<4	<.02	<.02

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 4 of 7

[Remark codes: <, less than; E, estimated.]

Date	Bromo-Bromo-dichloro-methane water, unfltrd	Bromo-chloro-methane water, unfltrd	Bromo-ethene, water, unfltrd	Chloro-benzene water, unfltrd	Chloro-ethane, water, unfltrd	Chloro-methane water, unfltrd	cis-1,2-Di-chloro-ethene, water, unfltrd	Di-bromo-chloro-methane water, unfltrd	Di-bromo-methane water, unfltrd	Di-chloro-fluoro-methane water, unfltrd	Di-chloro-methane water, unfltrd	Di-ethyl-ether, water, unfltrd	Di-isopropyl-ether, water, unfltrd
	µg/L (77297)	µg/L (32101)	µg/L (50002)	µg/L (34301)	µg/L (34311)	µg/L (34418)	µg/L (77093)	µg/L (32105)	µg/L (30217)	µg/L (34668)	µg/L (34423)	µg/L (81576)	µg/L (81577)
Feb 18...	<.06	<.04	<.1	<.02	<.1	<.1	<.02	<.1	<.04	<.10	<.04	<.1	<.06

01461000 DELAWARE RIVER AT LUMBERVILLE, PA—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 5 of 7

[Remark codes: <, less than; E, estimated.]

Date	Ethyl methacrylate, water, unfltrd	Ethyl methyl ketone, water, unfltrd	Ethyl benzene	Hexa-chlorobutadiene, water, unfltrd	Hexa-chloroethane, water, unfltrd	Iso-butyl ketone, water, unfltrd	Iso-propyl benzene	Methyl acrylate, water, unfltrd	Methyl acrylonitrile, water, unfltrd	Methyl methacrylate, water, unfltrd	Methyl t-butyl ether, water, unfltrd	Methyl pentyl ether, water, unfltrd	Methyl + para-Xylene, water, unfltrd
	µg/L (73570)	µg/L (81595)	µg/L (34371)	µg/L (39702)	µg/L (34396)	µg/L (78133)	µg/L (77223)	µg/L (49991)	µg/L (81593)	µg/L (81597)	µg/L (78032)	µg/L (50005)	µg/L (85795)
Feb 18...	<.1	<1.6	<.04	<.1	<.1	<.4	<.04	<.6	<.2	<.2	<.10	<.06	<.08

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 6 of 7

[Remark codes: <, less than; E, estimated.]

Date	Naphthalene, water, unfltrd	Methyl n-butyl ketone, water, unfltrd	n-Butyl benzene	Propyl benzene	o-Xylene, water, unfltrd	sec-Butyl-benzene	Styrene	t-Butyl ethyl ether, water, unfltrd	tert-Butyl-benzene	Tetra-chloroethene, water, unfltrd	Tetra-chloromethane, water, unfltrd	Tetra-hydrofuran, water, unfltrd	Toluene µg/L (34696)
	µg/L (77103)	µg/L (77342)	µg/L (77224)	µg/L (77135)	µg/L (77350)	µg/L (77128)	µg/L (50004)	µg/L (77353)	µg/L (34475)	µg/L (32102)	µg/L (81607)	µg/L (34010)	
Feb 18...	<.2	<.6	<.1	<.04	<.04	<.02	<.04	<.04	<.06	<.04	<.06	<.1	E.08

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 7 of 7

[Remark codes: <, less than; E, estimated.]

Date	trans-1,2-Dichloroethene, water, unfltrd	trans-1,4-Dichloro-2-butene, water, unfltrd	Tri-bromomethane, water, unfltrd	Tri-chloroethene, water, unfltrd	Tri-fluoroethene, water, unfltrd	Tri-chloro-methane, water, unfltrd	Vinyl chloride, water, unfltrd
	µg/L (34546)	µg/L (73547)	µg/L (32104)	µg/L (39180)	µg/L (34488)	µg/L (32106)	µg/L (39175)
Feb 18...	<.02	<.4	<.10	<.02	<.08	<.02	<.1